

The application was originally made under the Patent Cooperation Treaty with the Soviet Union Patent Office acting as the receiving office on (86) 19 Jun 1980, being given an application number PCT/SU80/00104. The application was searched by the Soviet Union Patent Office acting as the International Search Authority (ISA), and published by the International Bureau on (87) 14 May 1981 under serial number WO81/01290 in the Russian language. The text of the application is contained in the publication made by the International Bureau as above identified. The accompanying text being an English translation thereof.

(12) UK Patent Application (19) GB (11) 2 114 578 A

(21) Application No 8120002

(22) Date of filing
19 Jun 1980

(30) Priority data

(31) 2831351

2912552

2912551

(32) 6 Nov 1979

28 Feb 1980

28 Feb 1980

(33) Soviet Union (SU)

(43) Date of issue

24 Aug 1983

(51) INT CL³ (AS GIVEN BY
ISA) C08F 220/56 C08L
33/26

(52) Domestic classification

C3L DF

C3P JG

C3W 210 227

C3Y B370 E300

U1S 1040 1064 1068

1336 C3L C3P

(56) Documents cited by ISA

GB A 1288438

GB A 1319751

US A 3046201

SU A 659619

(58) Field of search by ISA

INT Cl³

C08F 220/56

C08L 33/26

C12K 1/06

INT Cl C08 15/02

C08F 29/00

German 39c 25/01

US-195-100

260-89.7

526-307

GB 2(6) P

C3P

C6F FR group 14 class 5

8 CH 37h AT 39-6 12

14

CA 400 401 402

(71) Applicant

Kievsky Meditsinsky

Institut Imeni

Akademika A

A Bogomoitza (USSR)

252004 Kiev

br Shevchenko d 13

USSR

(72) Inventors

Vladimir Vladislavovich

Gashinsky

Ivan Petrovich Bilko

Anatoly Mikhailovich

Sokolyuk

(74) Agent and/or Address for
Service

Mathisen Macara and Co

Lyon House

Lyon Road

Harrow

Middlesex HA1 2ET

(54) Polyacrylamide gel for medi-
cal and biological application and
method of its preparation

(57) A polyacrylamide gel for medi-
cal and biological application con-
tains polyacrylamide and physiolog-
ical solution with the following ratio
of components (in % by weight):

polyacrylamide 3.0-28.0
physiological solution 72.0-97.0

The method of preparation of the
said polyacrylamide gel comprises
polymerization of acrylamide to-
gether with methylene-bis-acrylam-
ide and elution of the final product,
both polymerization and elution be-

ing carried out in the medium of
the physiological solution. The poly-
acrylamide gel can be used as a
base of nutrient mediums for grow-
ing microorganisms, artificial crys-
talline lenses and elastic contact
lenses.

GB 2 114 578 A